

**CODE GENERATION FOR MAPPING OBJECT FIELDS  
WITHIN NESTED ARRAYS**  
**ABSTRACT**

A method and device for generating mapping source code to establish mapping

- 5 connections between enterprise system nested array object fields and legacy system nested array object fields is disclosed. For each desired mapping connection in a received list of desired connections, a determination of an enterprise system field and legacy system field to be mapped, as well as a connection nesting level, is made. The identity of the system arrays containing the enterprise and legacy system fields is also determined. A logical tree is created which includes a
- 10 root node, one leaf node for each desired connection, and, for each leaf node, N intermediate nodes interconnecting the leaf node with the root node, where N is equivalent to the determined nesting level of the connection associated with that leaf node, and where each of the N intermediate nodes that is successively further from the root node is associated with a successively more deeply nested target system array. The tree is then traversed depth-first to
- 15 generate the desired mapping source code.

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